

## 2016 UPPER EAST COAST WATER SUPPLY PLAN UPDATE STATUS



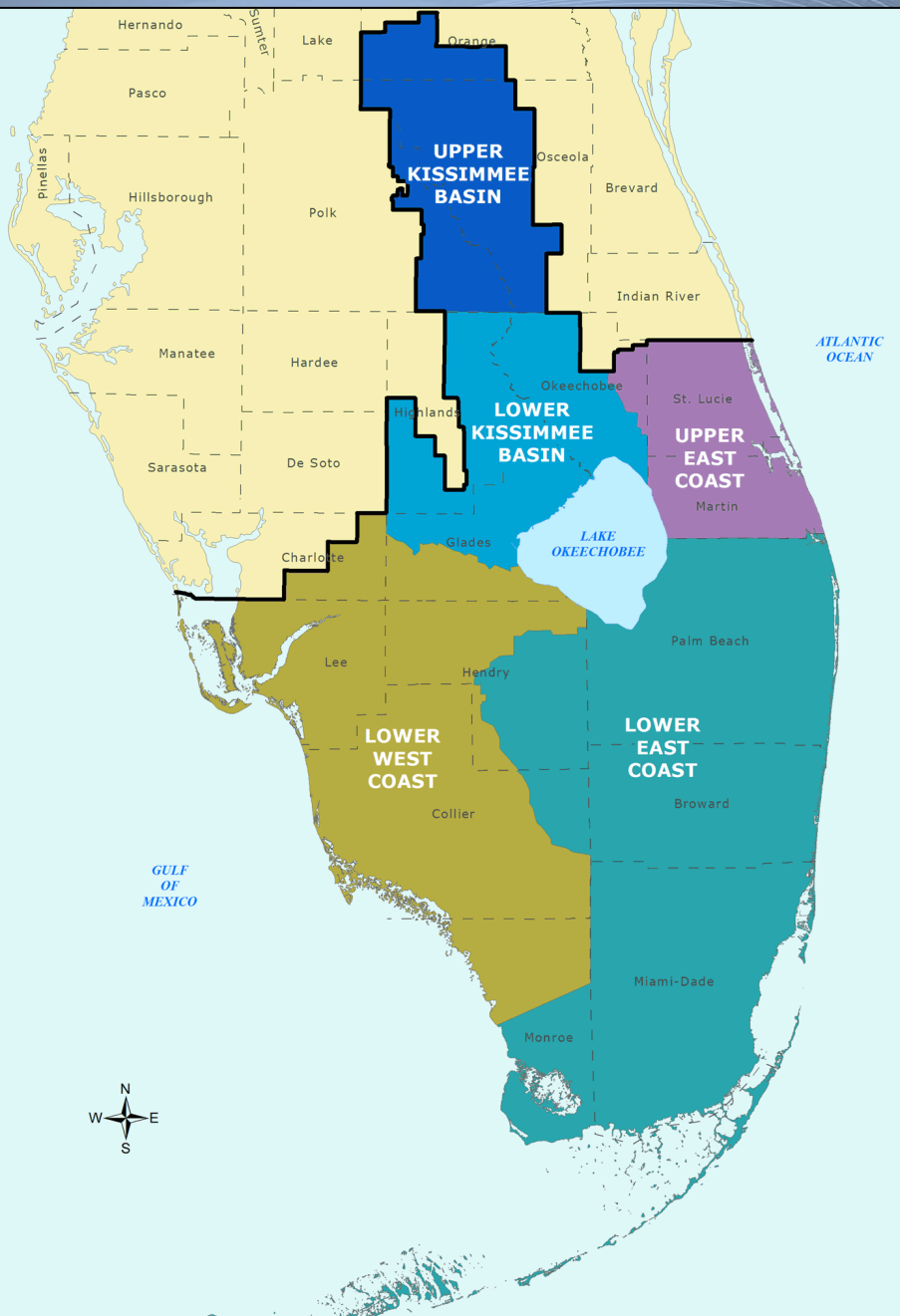
**Mark Elsner, P.E.**  
**Administrator**  
**Water Supply Development Section , SFWMD**  
**WRAC Meeting**



June 4, 2015

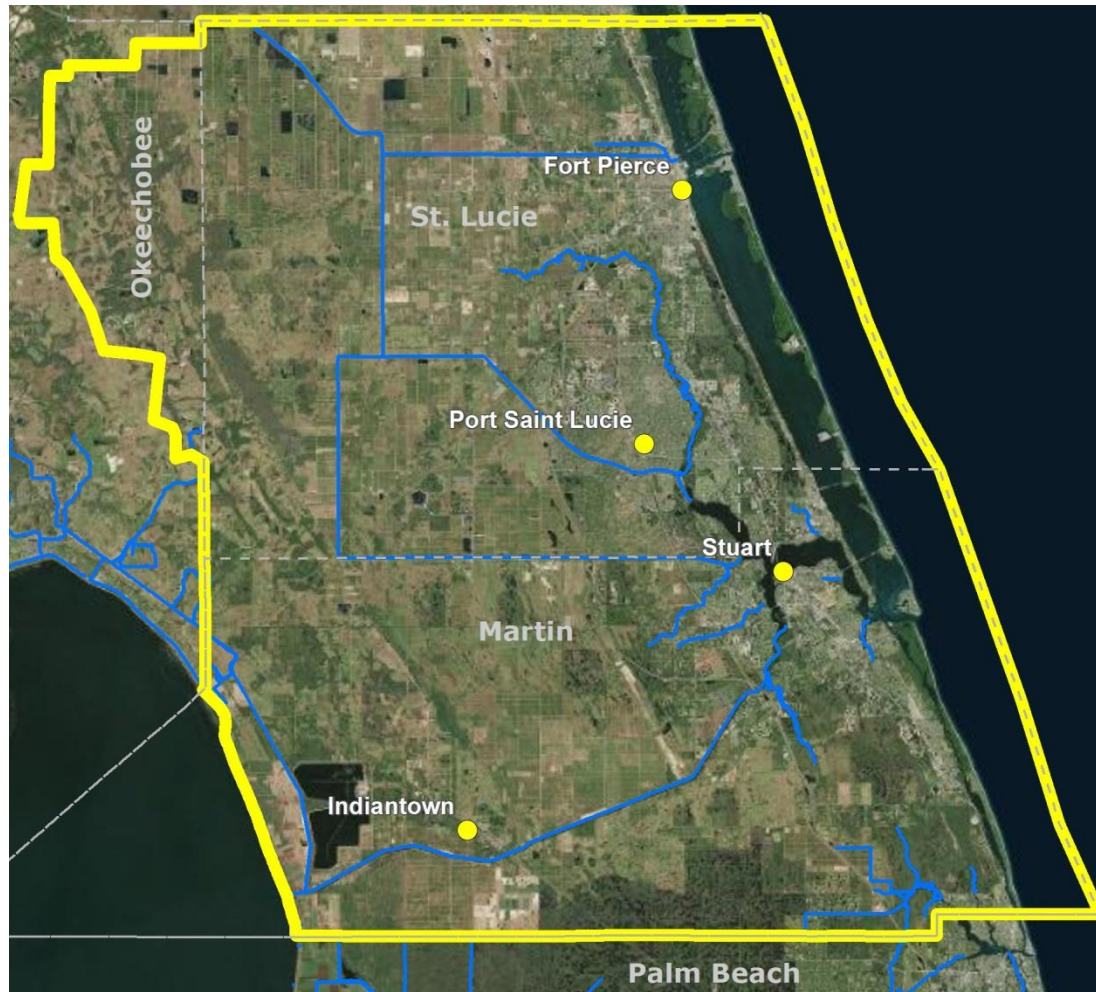
# Regional Water Supply Plan Requirements

- 20-year planning period
- Demand estimates and projections
- Resource analyses/issue identification
- Evaluation of water source options
- Water Resource Development
  - Responsibility of Water Management
- Water Supply Development
  - Responsibility of Water Utilities/Users
- Minimum Flows and Levels (MFLs)
  - Prevention or Recovery Strategies





# Upper East Coast (UEC) Planning Area



- The geographic area Includes:
  - *St. Lucie County*
  - *Martin County*
  - *NE Okeechobee County*
- Major agricultural industry
- 7 municipalities
- 16 public water supply utilities
- Significant environmental features

# Summary of 2011 UEC Plan Issues

- In many areas, increases in withdrawals from the surficial aquifer system limited
  - *Wetlands*
  - *Salt water intrusion*
  - *Aquifer protection*
- Surface water availability limited
- Fresh water discharges affecting health of coastal resources
  - *Salinity fluctuations*

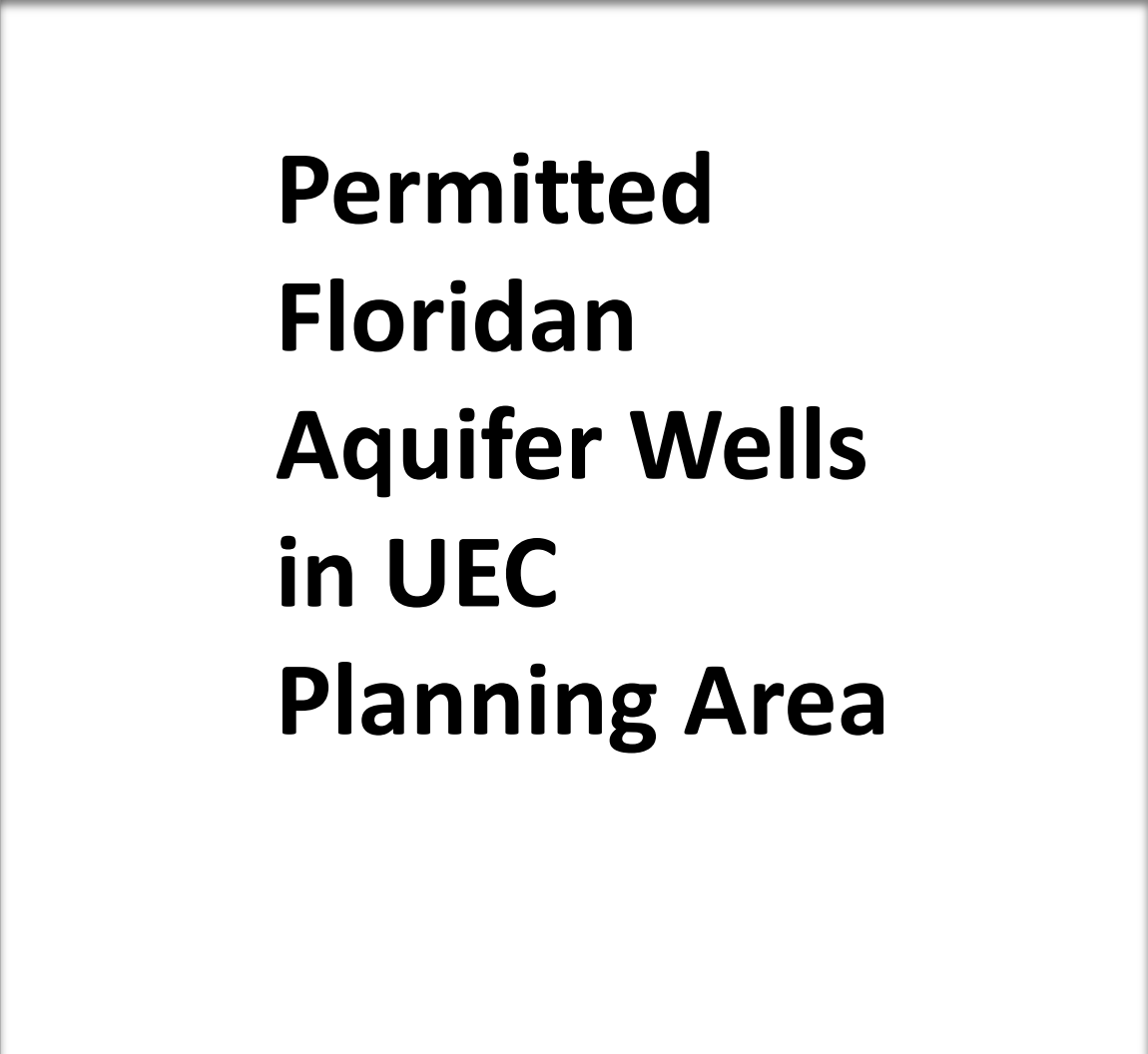


# Importance of Public Involvement

- **Active participation to ensure plan reflects needs of planning area**
  - *Agricultural Interests*
  - *Public Water Suppliers*
  - *Environmental Community*
  - *County Commission/City Council*
  - *County/City Planning Staff*
  - *Adjacent Water Management District*
- **Opportunities for public participation**
  - *WRAC & WRAC special issue's workshops*
  - *Governing Board meetings*
  - *One-on-one meetings*
  - *Others*

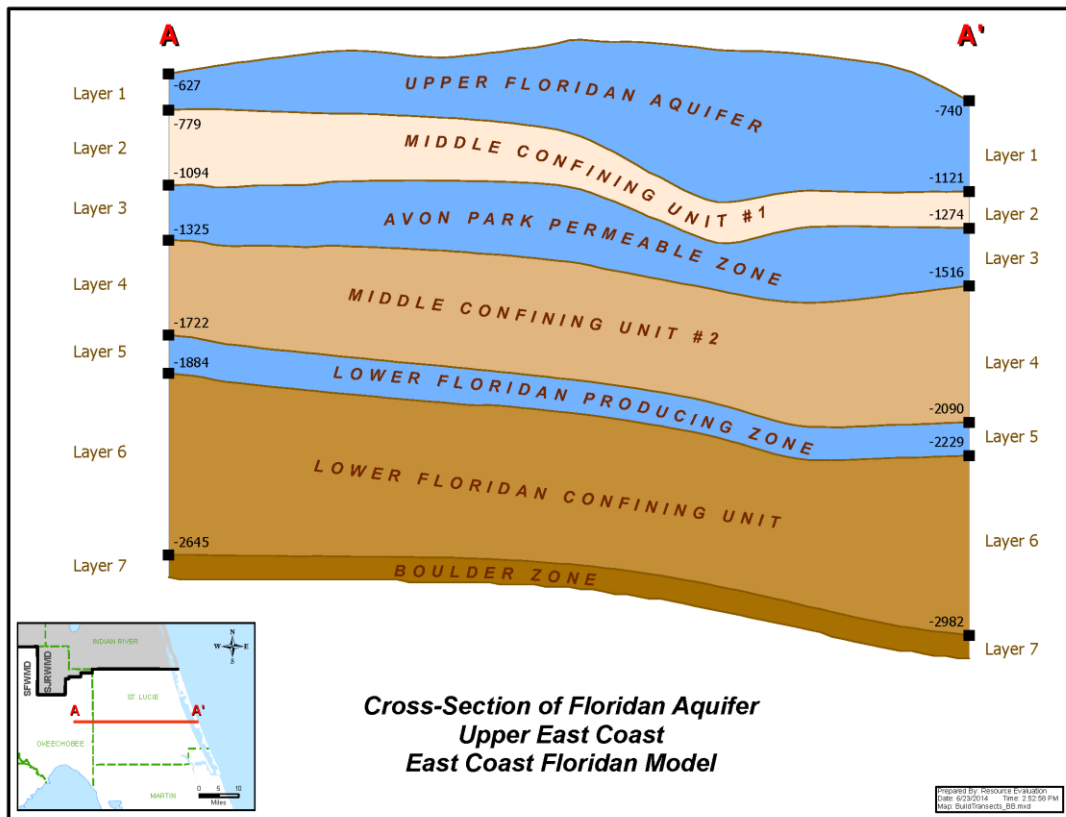






**Permitted  
Floridan  
Aquifer Wells  
in UEC  
Planning Area**

# UEC Floridan Aquifer System Model Analysis



- **First application of East Coast Floridan Model (ECFM)**
  - *Simulates water quality in addition to water levels and flows*
- **Meetings with stakeholders and adjacent water management district**
- **Two public meetings**
  - *Objective and Approach*
    - June 26, 2014
  - *Assumptions and Results*
    - June 3, 2015

# UEC FAS Model Analysis

## Draft Conclusions

### ■ Upper Floridan Aquifer (UFA) results

- *Continued withdrawals at current rates (2013) in southern Indian River County and northern St. Lucie County will have a combined effect on water levels and water quality*
  - *Increased withdrawals at projected future rates (2040) will have larger effect on water levels and water quality*
- *Potential decreases in water levels increases the risk of artesian flow reductions for agricultural users in portions of St. Lucie County*
- *Remaining areas show little or no change in water quality or water level through the model simulations*

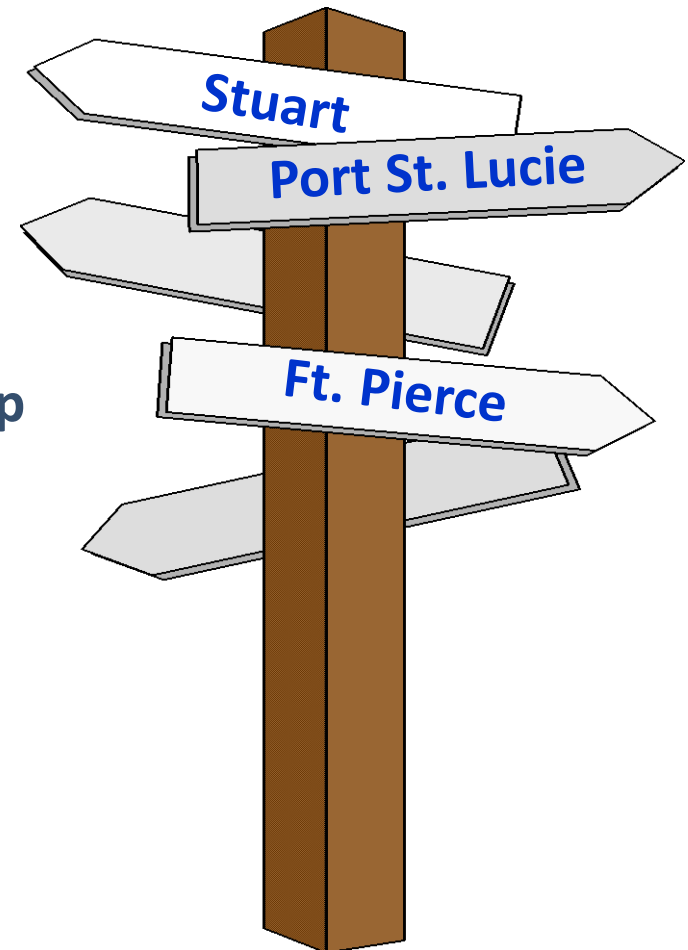
### ■ Avon Park Permeable Zone (APPZ) results

- *Water quality degradation will likely continue for Public Water Supply utilities in St. Lucie, Martin and N. Palm Beach counties*



# What's Next?

Ongoing	Meetings with stakeholders
June 4	WRAC Presentation
June 11	Governing Board Presentation
June 25	UEC Plan Update Kick-off Public Workshop
Nov.	Distribute Draft Plan
Dec.	Public Workshop
Jan. 2016	Draft Plan to Governing Board
March 2016	Final Plan to Governing Board



# Need UEC Water Supply Plan Information?

Home >> Managing and Protecting Water >> Planning and Building >> Water Supply Planning >> UPPER EAST COAST PLAN

## Upper East Coast Water Supply Plan

**VIEW LARGER**

**RELATED LINKS**

- About Water Supply Planning
- Upper East Coast Water Supply Plans
- Water Supply Facilities Work Plan Support
- Intergovernmental Programs: Linking Land and Water
- Alternative Water Supply
- Where does our drinking water come from? [PDF]
- Water Conservation
- Water Resources Advisory Commission (WRAC)
- Past Upper East Coast Water Supply Plans

The **Upper East Coast** Water Supply Planning Area includes Martin and St. Lucie counties, as well as a portion of Okeechobee County. The 2011 Upper East Coast Water Supply Plan Update assesses projected water demands and potential sources of water for the period from 2010 to 2030. This plan update is used by local governments, water users, and utilities to update and modify local comprehensive plans, facility work plans, and ordinances. [more »](#)

### UPPER EAST COAST (UEC) WATER SUPPLY PLAN DOCUMENTS

**2011 Upper East Coast Water Supply Plan Update**

- 2011 UEC Water Supply Plan Update (Planning Document) [PDF]
- 2011 UEC Water Supply Plan Update (Appendices) [PDF]
- 2011 UEC Water Supply Plan Update – Water Resource Caution Area Amendment [PDF]
- 2011-2014 Water Supply Plan Support Document [PDF]

**NOTE:** to request a CD containing these documents, click [here](#) and provide your name and mailing address.

**In the News**

- CFWI Planning Documents Available for Public Review and Comment; Public Meetings Scheduled (May 08)
- April Showers Follow Dry March (May 01)
- SFWMD Recognizes April as Water Conservation Month (Apr 10)
- South Florida Sees Dry March (Apr 02)
- SFWMD Highlights Water Conservation With Expo and Vendor Fair (Feb 20)

**NEWS ARCHIVE**

**Online ePermitting Services**

**LEARN MORE**

**Upcoming Events**

- Florida Water Star Accredited Professional Training and Exams - May 13-14, Fort Lauderdale
- Lakeside Ranch STA Bird-Watching Tour Schedule
- DBH/DRO Environmental Database Training
- Governing Board Meetings Schedule [PDF]
- Governing Board Meetings, Agendas and more

**CALENDAR**

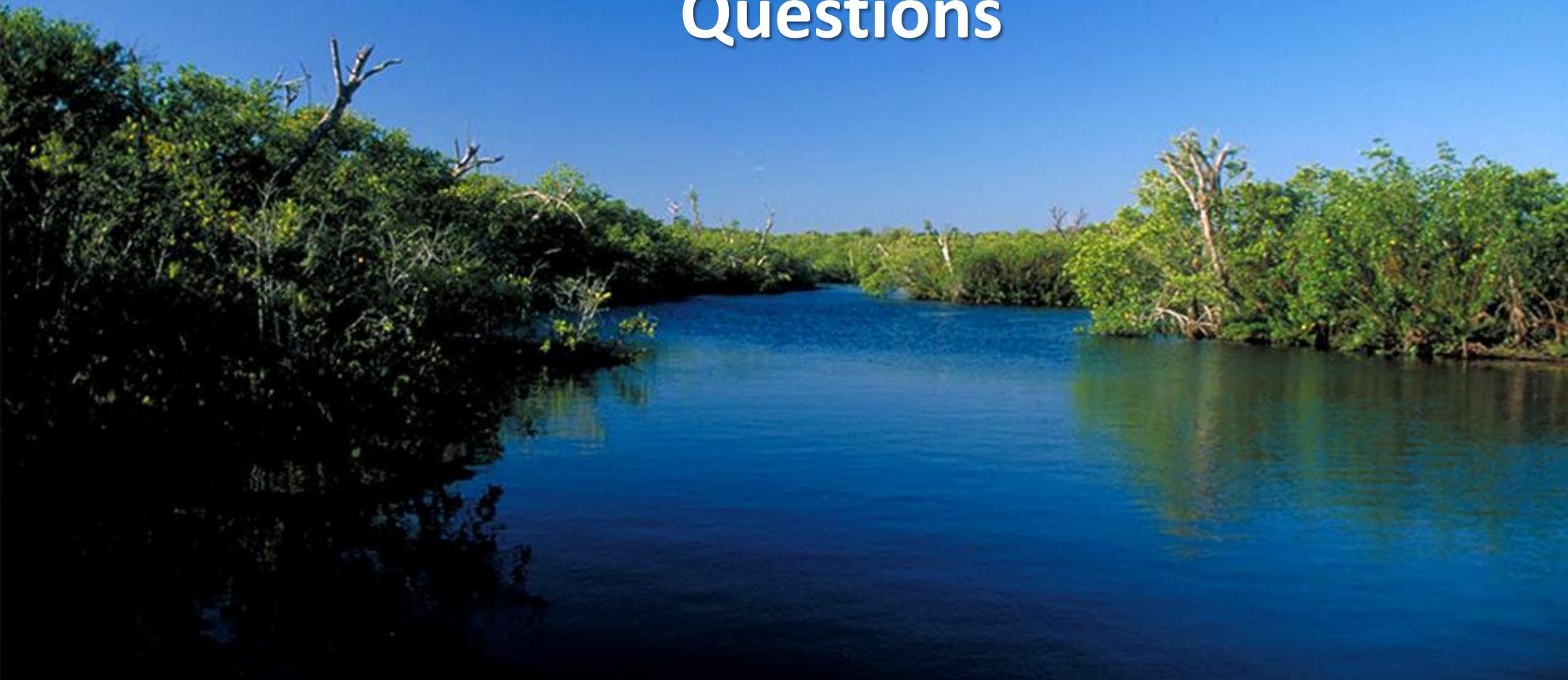
**Related Contacts**

For technical questions or more information on the Upper East Coast Water Supply Plan:

- Linda Hoppes  
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(561) 682-2213

- Plan information, including modeling and workshops, can be found at:  
[www.sfwmd.gov](http://www.sfwmd.gov)
  - Then type “Upper East Coast *Water Supply Plan*” in search box
- Workshop information can be found at:
  - SFWMD Calendar
  - WRAC agenda webpage
- Workshop announcements sent by email

# Questions





# UEC FAS Model Analysis

## Draft Recommendations

- **Successful long-term management of the Floridan Aquifer System (FAS) for PWS will likely require a combination of:**
  - *Additional wells with greater spacing between wells*
  - *Lower capacity wells in the APPZ*
  - *Continued refinement of wellfield operational plans*
- **District to work with agricultural industry to:**
  - *Better understand the use of the FAS for irrigation as it relates to surface water availability*
  - *Better define water quality tolerances for crops*
- **Continue District coordination with St. Johns River Water Management District**